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What is claimed is

- A repeater monitoring system for enlarging service areas based on a wireless communications network, comprising:
- a repeater monitoring apparatus for selecting waves transferred from repeaters, and analyzing the waves by using programs, and transmitting analyzed results;
- an SMS center for receiving the analyzed results from the repeater monitoring apparatus, and transmitting the analyzed results;
- a repeater management server for receiving the analyzed results from the SMS center and managing a plurality of repeaters; and
- a storage apparatus for saving the analyzed results received from the repeater management server.
- 2. The system of the claim 1, the analyzed results received from the repeater monitoring apparatus are information of short message type.
- 3. The system of claim 1 or claim 2, the analyzed result comprises at least one selected from the group consisting of an analysis time, an identification of a terminal manufacturing company corresponding to a mobile communications company(SID), a telephone exchange identification used by the repeater(NID), a noise measurement

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(PILOT_PN), a received message signal strength indicator(RSSI), a signal-to-interference rate(Ec/Io), a transmitted message signal strength indicator (TX_PWR).

- 4. The system of claim 1, the SMS center further comprises the means for searching and selecting a short message including the analyzed results from the plural short messages.
- 5. The system of the claim 1, the repeater management server modifies an analysis result transmission period of the repeater monitoring apparatus through the communications network.
- 6. The system of the claim 5, the communications network is a mobile communications network.
- 7. The system of the claim 1, the repeater monitoring apparatus comprises an incoming terminal and an incoming line for drawing external power sources, the transformer for adjusting the power sources.
- 8. The system of the claim 7, the power sources transformed by the transformer is at least one selected from the group consisting of 12V, 7.2V, 3.6V.

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- 9. The system of the claim 1, the repeater monitoring apparatus further comprises the external wave cover case for connecting the repeater with itself.
- 10. A repeater monitoring apparatus for enlarging service areas based on a wireless communications network, the apparatus comprising:

a storage device; and

a processor coupled to the storage device,

the storage device storing a program for controlling the processor; and

the processor operative with the program to receive electronic waves sent out from

a repeater;

analyze the received electronic waves;

transmit an analysis result to a repeater management server.

11. The apparatus of the claim 10, the analysis result comprises at least one selected from the group consisting of an analysis time, an identification of a terminal manufacturing company corresponding to a mobile communications company(SID), a telephone exchange identification used by the repeater(NID), a noise measurement (PILOT_PN), a received message signal strength indicator(RSSI), a signal-to-interference rate(Ec/Io), a transmitted message signal strength indicator (TX_PWR)

12. A repeater monitoring apparatus for enlarging the service areas based on a wireless network, the apparatus comprising:

a storage device; and

a processor coupled to the storage device,

the storage device storing a program for controlling the processor; and

the processor operative with the program to receive analysis results from the repeater monitoring apparatus;

save the received analysis results to a storage apparatus; transmit the received analysis results to a manager's terminal.

- 13. The apparatus of the claim 12, the processor further operates with the program to compile statistics about the analysis results according to the fixed conditions.
- 14. A method for certificating a repeater monitoring apparatus comprising the steps of:

determining whether or not the repeater monitoring apparatus is in operation;

transmitting a certification request of the repeater monitoring apparatus to a repeater management server when the repeater monitoring apparatus is in operation;

receiving a certification confirm information from the repeater management server.

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15. The method of the claim 14, the communications network is a mobile communications network.

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- 16. The method of the claim 14, the certification request comprises at least one selected from the group consisting of an identification of a terminal manufacturing company corresponding to a mobile communications company(SID), a telephone exchange identification used by the repeater(NID), a noise measurement (PILOT_PN), a latitude of the repeater monitoring apparatus(BASE_LAT), a longitude of the repeater monitoring apparatus(BASE_LONG).
- 17. A method for setting up a report period of a repeater monitoring apparatus comprising the steps of:

receiving a fixing request comprising a basic value for setting up a report period of a particular repeater monitoring apparatus from a repeater management server;

saving the received basic value as report period of the repeater monitoring apparatus;

transmitting a fixing result to a repeater management server.

18. The method of the claim 17, the communications network is a mobile communications network.

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19. The system of the claim 17, the fixing request comprises at least one selected from the group consisting of a report period, a sequential number of the fixing request.

20. A method for transmitting a analysis result of a repeater monitoring apparatus comprising the steps of:

selecting electronic waves sent out from repeaters;

setting up a report period for reporting an analysis result of the electronic waves;

analyzing the electronic waves by using fixed programs according to the report

period;

transmitting an analyzed result to a repeater management server.

21. The method of the claim 20, further comprising the steps of:

receiving a fixing request comprising a basic value for setting up a report period of

15 the repeater monitoring apparatus from a repeater management server;

saving the received basic value as a report period of the repeater monitoring apparatus.

- 22. The method of the claim 20, the communications network is a mobile
- 20 communications network.

23. The method of the claim 20, the analysis result comprises at least one selected from the group consisting of an analysis time, an identification of a terminal manufacturing company corresponding to a mobile communications company(SID), a telephone exchange identification used by the repeater(NID), a noise measurement (PILOT_PN), a received message signal strength indicator(RSSI), a signal-to-interference rate(Ec/Io), a transmitted message signal strength indicator (TX_PWR).